Technical Data Compressor

SECOP

Model

Designation	**KLF7.7CNQX**	**200-240V/50Hz 1~**	Sales code:	**106H2809**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290, 0, 0**
Oil viscosity	19,2cSt	Displacement	7,7cm³ / 0,47cu.in
Oil quantity	240cm³ / 8,1fl.oz	Compressors on pallet	100
Refr. charge - tech. limit	200g / 7,1oz		
Free gas volume comp.	1575cm³ / 53,3fl.oz		
Weight	9,12kg / 20,1lbs		
Motor protection	external		
Winding resistance main	8,4Ω (at 25°C)		
Winding resistance aux	17,4Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		

General - Configurations with KLF7.7CNQX

	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	200-240V/50Hz
Number of phases	1
Voltage range	187-254V
Approvals	VDE
Starting torque	HST
Note	- / -

Applications with KLF7.7CNQX

	Conf. 1
Refrigerant	R290
Application	LBP+MBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with KLF7.7CNQX

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	14,3A
RLA (rated load amps / 1s/ $U_{(N)}$)	2,3A
Cut in current ($U_{(N)}$)	

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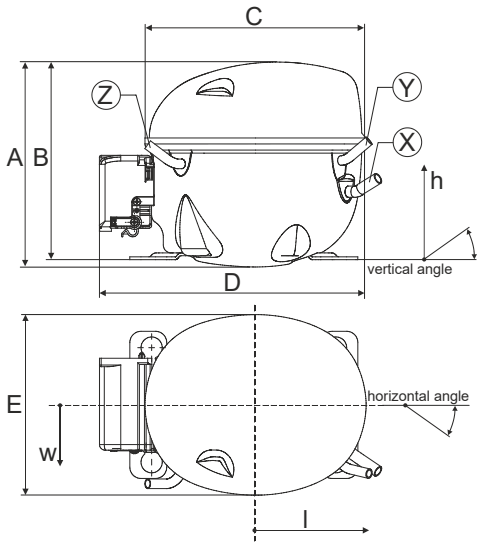
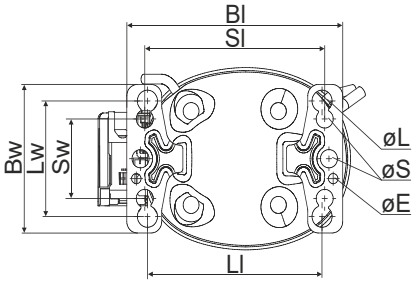
Compressor dimensions

Housing	A Height	182mm / 7,17in
	B Height	175mm / 6,89in
	C Length shell	198mm / 7,8in
	D Length w. cover	238mm / 9,37in
	E Width	160mm / 6,3in



Connectors		**Suction** **X**	**Discharge** **Y**	**Process** **Z**
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	35°	13°	0°
Vertical angle	±2°	30°	40°	145°
Position l/h/w	[mm]	119/73/59	117/107/66	-88/101/71
	[in]	4,7/2,9/2,3	4,6/4,2/2,6	-3,5/4/2,8
Straight tube l.	[mm]	14	14	14
	[in]	0,5	0,5	0,5

Compressor fixation

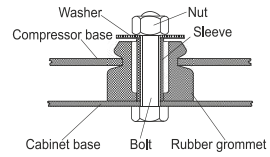


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38

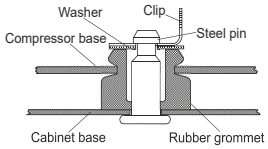
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	
Bolt joint | ø1/4" | ø19mm	118-1949	
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

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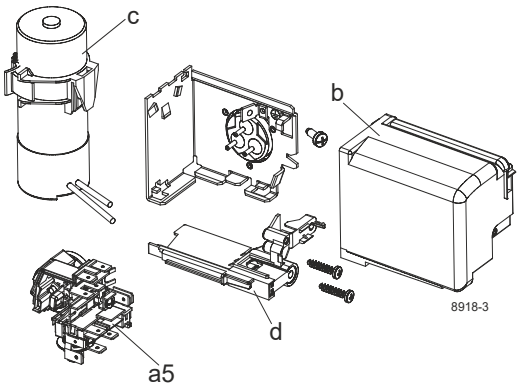
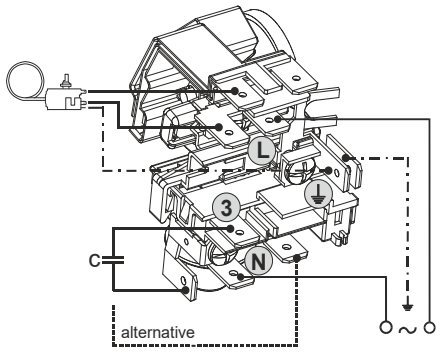
Application	LBP+MBP
Voltage range	187-254V
Starting torque	HST
Approvals	VDE

Electrical accessories / wiring diagram

CSIR

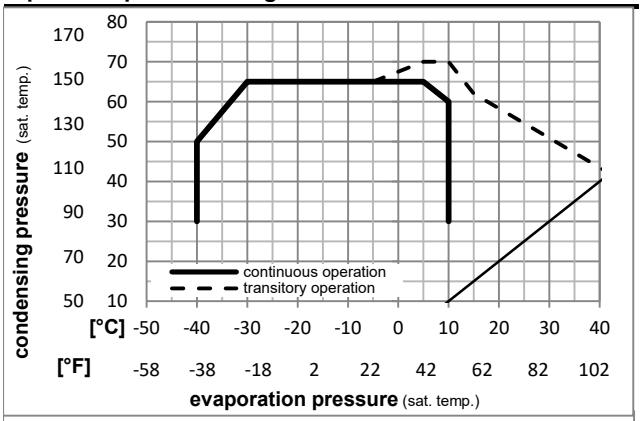


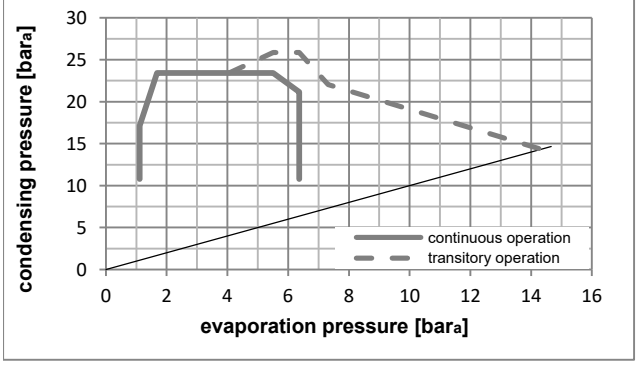


Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range





Components

a5	current relay (T1247/L6)	117U7084
c	start capacitor (80µF, 6.3mm)	117U5003
b, d	cover + clamp + screws(5VA-compl.)	103N0600

Alternative components

b, d	100x cover + clamp + screws(5VA)	103N2060
b, d	cover + clamp + screws(5VA) in bag	103N1060

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Optimization + standard conditions R290, 220V/50Hz, CSIR, fan 3m/s, VDE

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	388,4	1327	334,3	1,61	5,49	1,38	241,5	1,64	3,93	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	291,1	994	250,5	1,25	4,25	1,07	233,7	1,62	3,62	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	214,5	732	184,6	1,17	4,00	1,01	182,9	1,49	2,45	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-7	54	35	46	688,0	2350	592,1	2,06	7,04	1,78	333,5	1,96	7,85	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	547,8	1871	471,5	1,73	5,92	1,49	315,9	1,89	6,93	**cecomaf MBP**
[°F]	14	131	90	131										
[°C]	-10	45	20	45	602,2	2057	518,3	2,06	7,03	1,77	292,7	1,81	7,39	**EN12900 MBP**
[°F]	14	113	68	113										

Performance tables R290, 220V/50Hz, CSIR, fan 3m/s, VDE

	pe [°C]	[°F]	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	P1 [W]	I [A]	m [kg/h]
[°C / °F]	-40	-40	148,8	508	128,0	0,84	2,87	0,72	177,1	1,50	1,66
cond. pressure	-35	-31	203,9	696	175,5	1,08	3,68	0,93	189,2	1,51	2,29
pc= 45/113	-25	-13	338,1	1155	291,0	1,50	5,12	1,29	225,4	1,59	3,81
return gas temp.	-15	5	516,5	1764	444,5	1,91	6,53	1,65	270,1	1,73	5,88
RGT= 32/90	-5	23	754,1	2575	649,0	2,40	8,20	2,07	314,0	1,88	8,68
liquid temp	0	32	899,7	3072	774,3	2,70	9,23	2,33	332,9	1,95	10,44
Tliq= 45/113	10	50	1253,8	4282	1079,0	3,49	11,93	3,01	358,9	2,05	14,82
[°C / °F]	-40	-40	115,0	393	98,9	0,63	2,17	0,55	181,1	1,50	1,42
cond. pressure	-35	-31	167,8	573	144,4	0,87	2,96	0,75	193,4	1,51	2,08
pc= 55/131	-25	-13	291,1	994	250,5	1,25	4,25	1,07	233,7	1,62	3,62
return gas temp	-15	5	450,2	1538	387,5	1,57	5,36	1,35	287,1	1,79	5,66
RGT= 32/90	-5	23	660,0	2254	568,0	1,92	6,54	1,65	344,6	2,00	8,41
liquid temp	0	32	788,6	2693	678,7	2,12	7,24	1,82	372,0	2,10	10,13
Tliq= 55/131	10	50	1102,4	3765	948,7	2,63	8,99	2,27	418,7	2,29	14,45